Resins for borate adsorption and their use for removal of borate ion from water.
Sekiguchi, Hiroyuki; Honda, Naoko; Fukuda, Junji; Kono, Norio. (Mitsubishi Chemical Corp., Japan; Nippon Rensui Co.). Jpn. Kokai Tokkyo Koho (2002), 7 pp. CODEN: JKXXAF JP 2002226517 A2 20020814 Patent written in Japanese. Application: JP 2001-25744 20010201. CAN 137:144821 AN 2002:606402 CAPLUS

Abstract
The adsorbent resins are spherical particles (vol.-av. particle size 100-450 μm, vol. ratio of particles having size within av. particle size ± 10% of ≥50%) which comprise crosslinked styrene polymers or crosslinked methacrylate ester polymers bearing functional groups (e.g., glucamine) having affinity for borate ion. The resins with controlled particle size and narrow particle size distribution exhibit high exchange capacity for borate ion and are useful for treatment of wastewater, seawater, drinking water, etc.

Patent Family Information

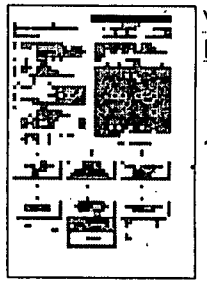
Patent No.	Kind	Date	Application No.	Date
JP 2002226517	A2	20020814	JP 2001-25744	20010201

Priority Application	
JP 2001-25744	20010201

Title: **JP2002226517A2: RESIN FOR ADSORBING BORIC ACID AND METHOD FOR REDUCING BORATE ION IN BORIC ACID-CONTAINING WATER USING THE SAME**

Derwent Title: Resin for boric acid adsorption, is spherical particle with preset diameter and volume abundance, formed by coupling of functional group having boric acid ion affinity with base material [Derwent Record]

Country: **JP** Japan
Kind: **A2** Document Laid open to Public inspection



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Inventor: **SEKIGUCHI HIROYUKI**;
HONDA NAOKO;
FUKUDA JUNJI;
KONO NORIO;

Assignee: **MITSUBISHI CHEMICALS CORP**
NIPPON RENSUI CO LTD
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Priority Number: 2001-02-01 **JP2001000025744**

Abstract: PROBLEM TO BE SOLVED: To provide a method for industrially and advantageously reducing borate ions in boric acid-containing water.

SOLUTION: This resin for adsorbing boric acid is a spherical particle having a functional group with an affinity for the borate ions and bound to a substrate composed of a cross-linked polystyrene or a cross-linked polymethacrylic ester and has 100-450 μm volume-

average particle diameter of the particle and ≥50% volume abundance ratio within the average particle diameter ±10%.

Family: None

Other Abstract Info: DERABS C2003-535546